

I claim:

1. The method for the detection of bromine in a sample of urine comprising the steps of;

(A) preparing a dry chemistry test means by successively impregnating a solid, carrier matrix with reagent solutions containing an indicator and a buffer, and

(B) drying the impregnated, solid carrier matrix, and finally

(C) dipping said dry chemistry test means into urine, and

(D) observing the detectable response in the form of a color developed in the presence or absence of bromine.

2. The method according to claim 1 wherein the detectable response is a color change visible to the human eye or in the visible light spectrum.

3. The method according to claim 1 wherein the sample of choice, urine, may be replaced by any biological sample including serum, whole blood, cerebral spinal fluid, gastric fluid, hair homogenates, sweat extracts, saliva or other biological fluid.

4. The method according to claim 1 in which one or more indicators can be selected from the following group consisting of 1,2,3,4-tetrahydrobenzo(h)quinolin-3-ol, 1,2,3,4-tetrahydrobenzo(h)quinolone, 1,2,3,4-tetrahydrobenzo(h)quinaldine, 3-hydroxy-1,2,3,4-tetrahydrobenzo(h)quinolone, 3-hydroxy-N-methyl-1,2,3,4-tetrahydrobenzo(h)quinolone, 3-acetoxy-N-methyl-1,2,3,4-tetrahydrobenzo(h)quinolone, N-methyl-1,2,3,4-tetrahydrobenzo(h)quinolone, 1,3-phenylenediamine, 1,2,3,4-tetrahydroquinoline, 1,2,3,4-tetrahydroisoquinoline hydrochloride, 7,8-benzoquinoline, 1,2,3,4-tetrahydro-3-isoquinolinecarboxylic acid hydrochloride, 1,2,3,4-tetrahydro-1-naphthylamine hydrochloride, naphthylamine, N,N-dialkyl-alpha-naphthylamine, phenolphthalin, 2,2'-Azino-di-(3-ethylbenzthiazolinesulfonic acid), 2,2'-Azino-di-(3-ethylbenzthiazolinesulfonic acid) diammonium salt, cyanoditolyl tetrazolium chloride, 3,3'-diaminobenzidine, o-dianisidine, dimethoxybenzidine, 0-phenylenediamine, 3-amino-9-ethylcarbazole, 3,3'-5,5'-tetramethylbenzidine, dimethoxybenzidine, 8-

hydroxyquinoline, m-phenylenediamine, 3- dimethylaminobenzoic acid, 5- aminosalicylic acid, 4-chloro-1-naphthol, diazotizable amine, sulfanilic acid, arsanilic acid, sulfanilamide, aminobenzoic acid or 4-aminoantipyrine in combination with one of the following compounds; p-hydroxybenzene sulfonate, p-hydroxybenzoic acid, n-ethyl-n-(2-hydroxy-3-sulfopropyl)-m-toluidine, n-ethyl-n-sulfopropyl-m-toluidine, 2-hydroxy-3,5-dichlorobenzenesulfonic acid, 3-hydroxy-2,4,6-triiodobenzoic acid, and 3-hydroxy-2,4,6-tribromobenzoic acid.

5. The method according to claim 1 in which the buffer is can be selected from the following group consisting of citrate, borate, borax, sodium tetraborate decahydrate, sodium perchlorate, sodium chlorate, sodium carbonate, (Tris[hydroxymethyl]aminomethane), (2-[N-Morpholino]ethanesulfonic acid), (bis[2-Hydroxyethyl]iminotris[hydroxymethyl]methane; 2-bis[2-hydroxyethyl]amino-2-[hydroxymethyl-1,3-propanediol), (N-[2-Acetamido]-2-iminodiacetic acid; N-[Carbaoylmethyl]iminodiacetic acid), (2-[(2-Amino-2-oxoethyl)amino]ethanesulfonic acid; N-[2-Acetamido]-2-aminoethanesulfonic acid), (PiperazineN-N'-bis[2-ethanesulfonic acid]); 1,4-Piperzinedethanesulfoic acid), (3-[N-Morpholino]-2-hydroxypropanesulfonic acid), (1,3-bis[tris(Hydroxymethyl)methylamino]propane), (N,N-bis[2-Hydroxyethyl]-2-aminoethanesulfonic acid; 2-bis(2-Hydroxyethyl)amino]ethanesulfonic acid), (3-[N-Morpholino]propanesulfonic acid), (N-tris[Hydroxymethyl]methyl-2-aminomethanesulfonic acid; 2[2-Hydroxy-1,1-bis(hydroxymethyl)-ethyl]amino)ethanesulfonic acid), (3-[N,N-bis(2-Hydroxyethyl)amino]-2-hydroxypropanesulfonic acid), (3-[N-tris(Hydroxyethyl)methylamino]-2-(hydroxypropanesulfonic acid), (N-[2-Hydroxyethyl]piperazine-N'-[2Hydroxypropanesulfonic acid]), (Piperazine-N,N'-bis[2-hydroxypropanesulfonic acid]), (N-[2-Hydroxyethyl]piperazine-N'-[3-propanesulfonic acid]), (triethanolamine), (N-tris[Hydroxymethyl]methyllycine; N-[2-Hydroxy-1-1-bis(hydroxymethyl)etyl]glycine), (N,N-bis[2-Hydroxyethyl]glycine), (N-

tris[Hydroxymethyl]methyl-3-aminopropanesulfonic acid; ([2-Hdroxy-1,1-bis(hydroxymethyl)ethyl]amino)-1-propanesulfonic acid), (3-[(1,1-Dimethyl-2-hydroxyethyl)amino]-2-hydroxypropanesulfonic acid), (2-[N-Cyclohexylamino]ethanesulfonic acid), (3-[Cyclohexylamino]-2-hydroxy-1-propanesulfonic acid), 2-Amino-2-ethyl-1-propanol, (3-[cyclohexylamino]-1-propanesulfonic acid), hydrochloric acid, phosphoric acid, lactic acid, sulfuric acid, nitric acid, chromic acid, boric acid, citric acid, oxalic acid, tartaric acid, succinic acid, perchloric acid, potassium hydrogen tartrate, potassium hydrogen phthalate, calcium hydroxide, phosphate, bicarbonate, sodium hydroxide, potassium hydroxide, tartrate, oxalate or succinate.